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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/974,519	10/10/2001	Dhiren R. Thakker	421/32/2	7285
25297	7590 12/12/2005		EXAM	INER
JENKINS, WILSON & TAYLOR, P. A.			GRAFFEO, MICHEL	
3100 TOWER SUITE 1400	3100 TOWER BLVD SUITE 1400 DURHAM, NC 27707			PAPER NUMBER
DURHAM, N				1614

DATE MAILED: 12/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	TA 10 40 A1					
	Application No.	Applicant(s)				
Office Action Summan	09/974,519	THAKKER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Michel Graffeo	1614				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 21 C	Oct 2004					
· · · · · · · · · · · · · · · · · · ·	s action is non-final.					
		esecution as to the merits is				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	in panto quayro, roco order en					
	Claim(s) 1,2,6 and 8 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
	6)⊠ Claim(s) <u>1,2,6 and 8</u> is/are rejected.					
	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 31 May 04.	,					

DETAILED ACTION

Status of Action

Claims 1-2, 6 and 8 are pending and examined.

Applicant has amended claim 2, canceled claim 3 and provided arguments for the patentability of claims 1-2, 6 and 8 in the response filed 21 October 2004.

Notwithstanding Applicant's Response filed 21 October 2004, the rejections from the previous Office Action are maintained to the extent that Liu et al. 88 J

Pharmaceutical Sci 1161-1168 is appropriately applied as a reference. Any rejection not specifically stated in this Office Action has been withdrawn.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Liu et al. 88 J Pharmaceutical Sci 1161-1168.

Liu et al. teach that DPC can improve the paracellular permeability of certain compounds across the intestinal epithelium (in current claims 1-2 and 6; see Abstract).

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DPC is shown as having the following structural formula (in current claim 2; see page 1162):

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-2, 6 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liu et al. 88 J Pharmaceutical Sci 1161-1168.

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Liu et al. teach that DPC can improve the paracellular permeability of certain compounds across the intestinal epithelium (in current claims 1-2 and 6; see Abstract). DPC is shown as having the following structural formula (in current claim 2; see page 1162):

Although Liu et al. do not specifically recite the improvement of paracellular permeability across the blood brain barrier, one of ordinary skill in the art would have appreciated such applicability because of the need to increase the permeability across the blood brain barrier for example with anticancer agents. Thus, the reference suggests and makes prima facie obvious how to use the claimed invention at the time that it was made.

Response to Arguments

Applicant's arguments filed 21 October 2004 have been fully considered but they are not persuasive. Applicant contends that at the time the application was filed, that alkylphosphocholines inhibit PLC was not known, and based on that the rejection under Liu et al. should be withdrawn.

Liu et al. teach the enhancement of paracellular permeability with a compound recited in claim 2. Products of identical chemical composition can not have mutually exclusive properties. A chemical composition and its properties are inseparable.

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Therefore, if the prior art teaches the identical chemical structure, the properties applicant discloses and/or claims are necessarily present. To that end, the method of enhancing paracellular permeability with DPC necessarily included the function of inhibiting phospholipase C.

The Wissner reference (US Patent No. 5,14,045) has been withdrawn as a reference.

The listing of references in the Search Report is not considered to be an information disclosure statement (IDS) complying with 37 CFR 1.98. 37 CFR 1.98(a)(2) requires a legible copy of: (1) each foreign patent; (2) each publication or that portion which caused it to be listed; (3) for each cited pending U.S. application, the application specification including claims, and any drawing of the application, or that portion of the application which caused it to be listed including any claims directed to that portion, unless the cited pending U.S. application is stored in the Image File Wrapper (IFW) system; and (4) all other information, or that portion which caused it to be listed. In addition, each IDS must include a list of all patents, publications, applications, or other information submitted for consideration by the Office (see 37 CFR 1.98(a)(1) and (b)), and MPEP § 609.04(a), subsection I. states, "the list ... must be submitted on a separate paper." Therefore, the references cited in the Search Report have not been considered. Applicant is advised that the date of submission of any item of information or any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the IDS, including all "statement" requirements of 37 CFR 1.97(e). See MPEP § 609.05(a).

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Conclusion

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No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michel Graffeo whose telephone number is 571-272-8505. The examiner can normally be reached on 9am to 5:30pm Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Low can be reached on 571-272-0951. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

7 December 2005 MG

> CHRISTOPHER S. F. LOW SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1600